

# Updated Efficacy and Safety of the Bruton Tyrosine Kinase Degradar BGB-16673 in Patients With Relapsed or Refractory CLL/SLL: Results From the Ongoing Phase 1 CaDAnCe-101 Study

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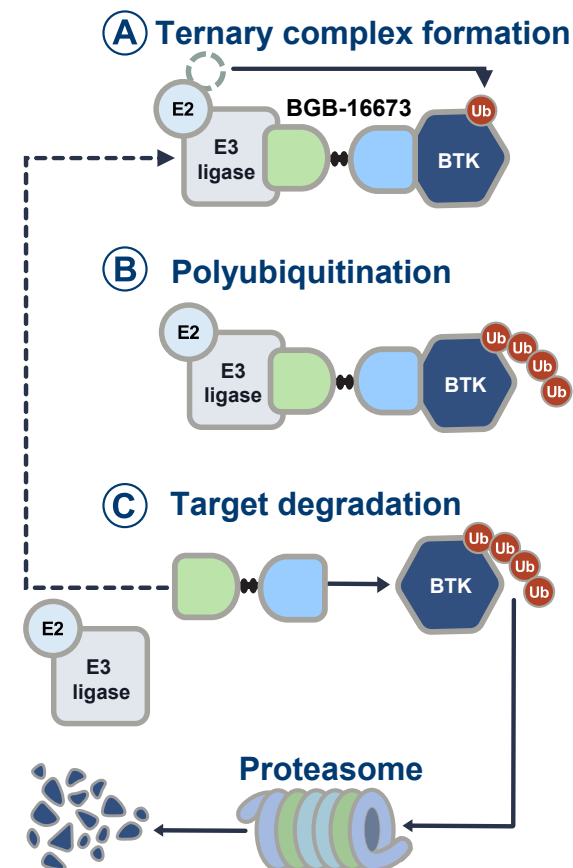
## Disclosures for Lydia Scarfò

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# BGB-16673: A Chimeric Degradation Activating Compound (CDAC)

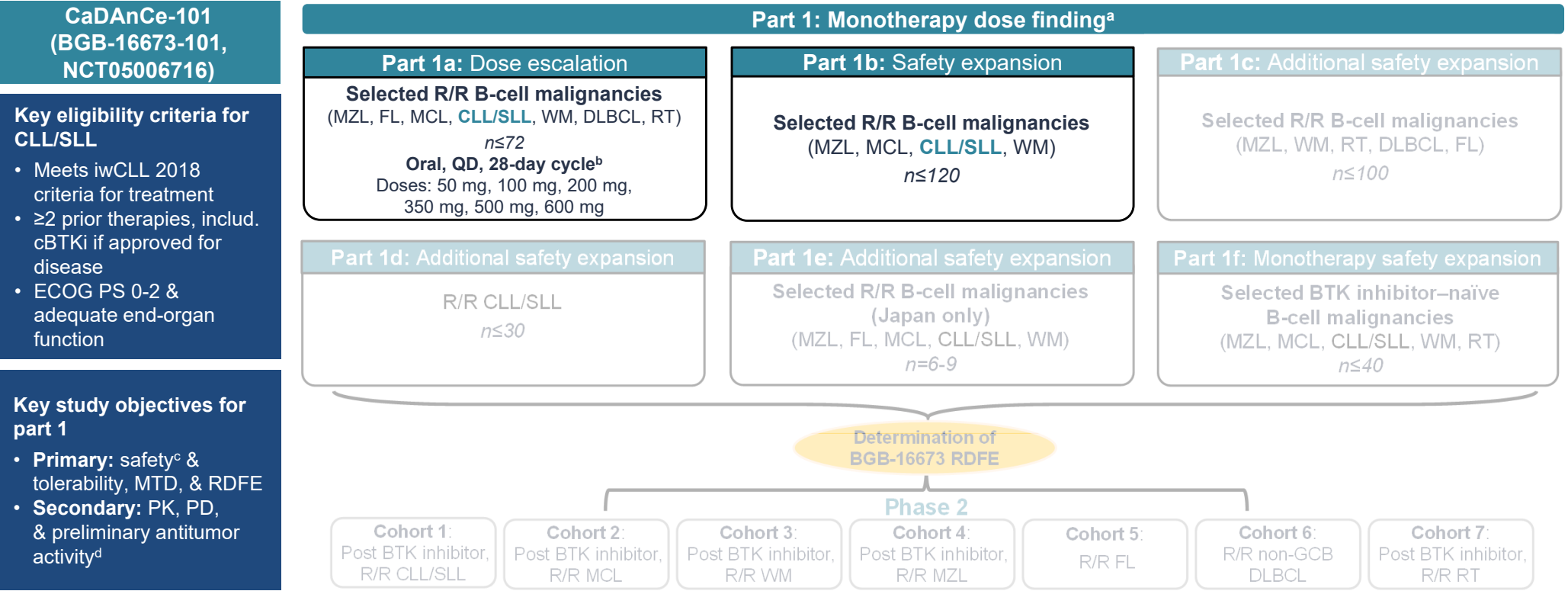
- Many patients with CLL/SLL experience disease progression with BTK inhibitors, which can be caused by resistance mutations in BTK<sup>1-3</sup>
- BGB-16673 is an orally available protein degrader that blocks BTK signaling by tagging BTK for degradation through the cell's proteasome pathway, leading to tumor regression<sup>4</sup>
- In preclinical models, BGB-16673 showed CNS penetration and degraded both wild-type and mutant BTK resistant to cBTK (C481S, C481F, C481Y, L528W, T474I) and ncBTK inhibitors (V416L, M437R, T474I, L528W)<sup>4,5</sup>
- BGB-16673 led to substantial reductions in BTK protein levels in peripheral blood and tumor tissue<sup>6</sup>
- Here, updated safety and efficacy results in patients with R/R CLL/SLL in phase 1 of CaDAnCe-101 are presented



BTK, Bruton tyrosine kinase; cBTK, covalent Bruton tyrosine kinase; CLL/SLL, chronic lymphocytic leukemia/small lymphocytic lymphoma; CNS, central nervous system; ncBTK, noncovalent Bruton tyrosine kinase; R/R, relapsed/refractory; Ub, ubiquitin.

1. Moreno C. *Hematol Am Soc Hematol Educ Program*. 2020;2020:33-40; 2. Woyach JA, et al. *N Engl J Med*. 2014;370:2286-2294; 3. Wang E, et al. *N Engl J Med*. 2022;386:735-743; 4. Feng X, et al. EHA 2023. Abstract P1239; 5. Wang H, et al. EHA 2023. Abstract P1219; 6. Seymour JF, et al. ASH 2023; Abstract 4401.

# CaDAnCe-101: A Phase 1/2, Open-Label, Dose-Escalation/Expansion Study in R/R B-Cell Malignancies



# Baseline Patient Characteristics

## Heavily pretreated, with high-risk CLL features

	Total (N=66)
Age, median (range), years	70 (47-91)
Male, n (%)	45 (68.2)
ECOG PS, n (%)	
0	38 (57.6)
1	27 (40.9)
2	1 (1.5)
CLL/SLL risk characteristics at study entry, n/N with known status (%)	
Binet stage C	29/62 (46.8)
Unmutated IGHV	38/49 (77.6)
del(17p) and/or TP53 mutation	43/66 (65.2)
Complex karyotype (≥3 abnormalities)	22/44 (50.0)

	Total (N=66)
Mutation status, n/N (%)	
BTK mutation present	24/63 (38.1)
PLCG2 mutation present	10/63 (15.9)
BTK and PLCG2 mutation present	5/63 (7.9)
No. of prior lines of therapy, median (range)	4 (2-10)
Prior therapy, n (%)	
Chemotherapy	47 (71.2)
cBTK inhibitor	62 (93.9)
ncBTK inhibitor	14 (21.2)
BCL2 inhibitor	54 (81.8)
cBTK + BCL2 inhibitors	42 (63.6)
cBTK + ncBTK + BCL2 inhibitors	12 (18.2)
Discontinued prior BTK inhibitor due to PD, n/N (%) <sup>a</sup>	55/62 (88.7)

Data cutoff: March 3, 2025.

<sup>a</sup>The remaining seven patients discontinued prior BTK inhibitor due to toxicity (n=4), treatment completion (n=2), and other (n=1).

BCL2, B-cell lymphoma 2; BTK, Bruton tyrosine kinase; cBTK, covalent Bruton tyrosine kinase; CLL, chronic lymphocytic leukemia; ECOG PS, Eastern Cooperative Oncology Group performance status; ncBTK, noncovalent Bruton tyrosine kinase; PD, progressive disease; SLL, small lymphocytic lymphoma.

# Overall Safety Summary

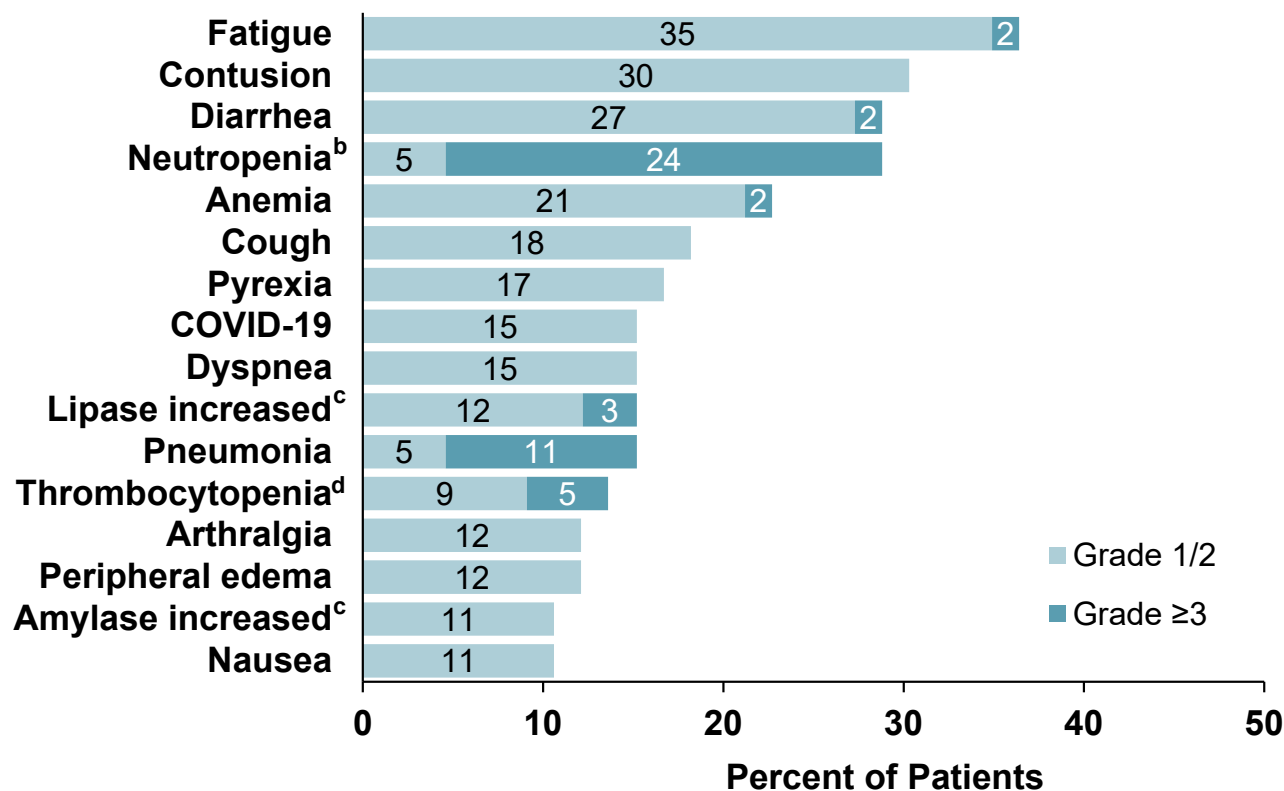
Tolerable safety profile, with no treatment-related TEAEs leading to death

Patients, n (%)	Total (N=66)
<b>Any TEAE</b>	63 (95.5)
Any treatment-related	49 (74.2)
Grade $\geq 3$	40 (60.6)
Treatment-related grade $\geq 3$	20 (30.3)
Serious	30 (45.5)
Treatment-related serious	8 (12.1)
Leading to death	4 (6.1)
Treatment-related leading to death	0
Leading to treatment discontinuation	9 (13.6)
Treatment-related leading to treatment discontinuation	2 (3.0)

Median follow-up in safety-evaluable patients: 15.6 months (range, 0.3-30.6+ months).  
TEAE, treatment-emergent adverse event.

# Summary of All-Grade TEAEs in ≥10% of All Patients

- Most common TEAEs were fatigue in 37% and contusion (bruising) in 30% of patients
- Atrial fibrillation: n=2 (one grade 1 and one grade 2 in the context of infection and PD, respectively)
- Major hemorrhage<sup>a</sup>: n=2 (one grade 1 subarachnoid hemorrhage and one grade 3 subdural hemorrhage)
  - No new events occurred since the last update
- No pancreatitis



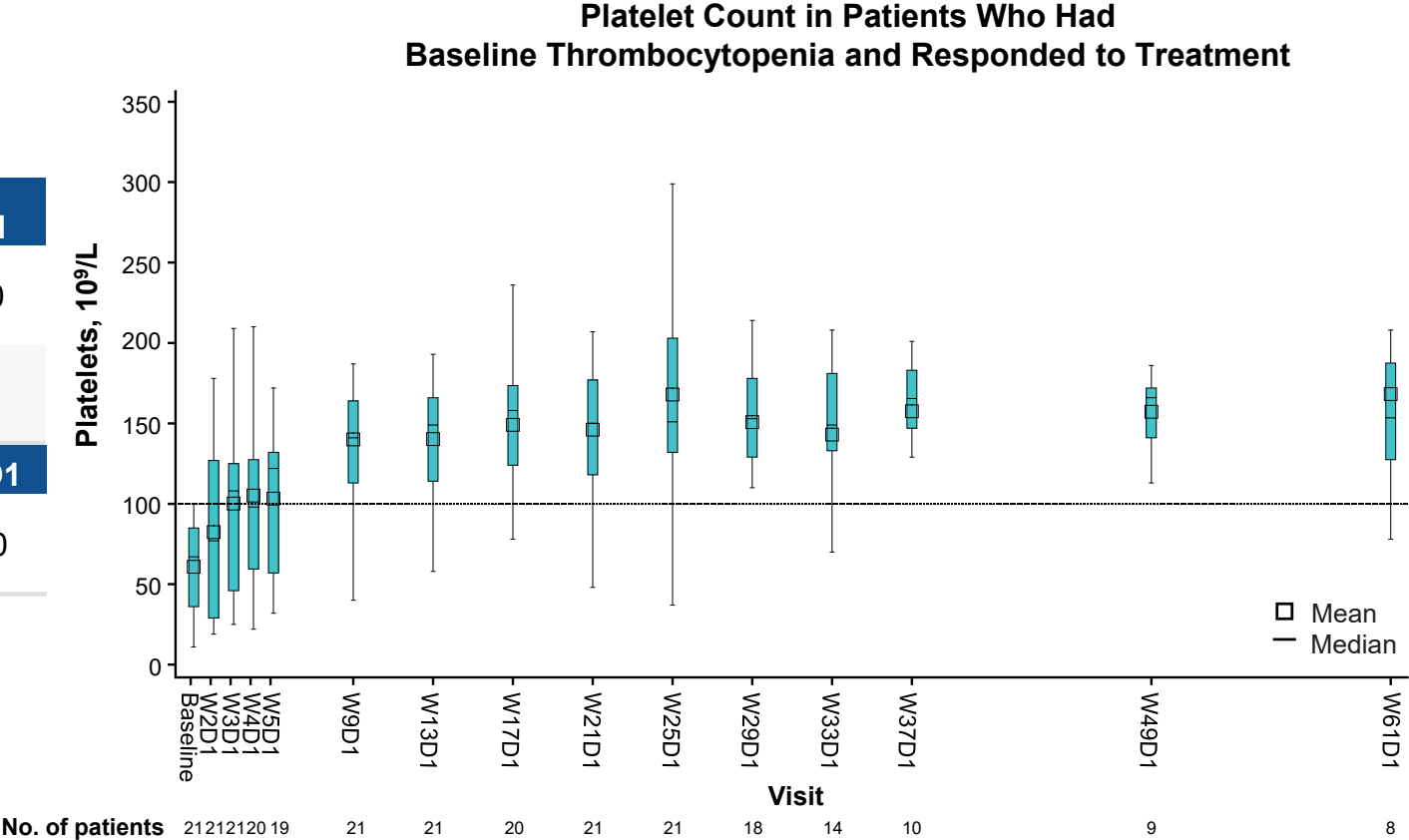
Median follow-up in safety-evaluable patients: 15.6 months (range, 0.3-30.6+ months).

<sup>a</sup>Grade ≥3, serious, or any central nervous system bleeding <sup>b</sup>Neutropenia combines preferred terms *neutrophil count decreased* and *neutropenia*. <sup>c</sup>All events were laboratory findings and were transient, mostly occurring during the first 1-3 cycles of treatment, with no clinical pancreatitis. <sup>d</sup>Thrombocytopenia combines preferred terms *platelet count decreased* and *thrombocytopenia*.

PD, progressive disease; SAE, serious adverse event; TEAE, treatment-emergent adverse event.

# Rapid and Significant Cytopenia Improvement was Observed in Patients With Treatment Response

	Baseline	W9D1
Platelet count, <sup>a</sup> median, 10 <sup>9</sup> /L	67.0	141.0
Neutrophil count, <sup>b</sup> median, 10 <sup>9</sup> /L	1.1	2.1
	Baseline	W13D1
Hemoglobin level, <sup>c</sup> median, g/L	99.0	108.0



<sup>a</sup>In n=21 patients based on 100×10<sup>9</sup>/L cutoff. <sup>b</sup>In n=13 patients based on 1.5×10<sup>9</sup>/L cutoff. <sup>c</sup>In n=23 patients based on 11.0 g/dL cutoff.  
D, day; W, week.

# Overall Response Rate

Significant responses, particularly at 200-mg dose level

	50 mg (n=1)	100 mg (n=22)	200 mg (n=16)	350 mg (n=15)	500 mg (n=12)	Total (N=66)
<b>Best overall response, n (%)</b>						
CR/CRi	0	1 (4.5)	1 (6.3)	0	1 (8.3)	<b>3 (4.5)</b>
PR <sup>a</sup>	1 (100)	11 (50.0)	12 (75.0)	11 (73.3)	9 (75.0)	44 (66.7)
PR-L	0	6 (27.3)	2 (12.5)	0	1 (8.3)	9 (13.6)
SD	0	4 (18.2)	0	0	1 (8.3)	5 (7.6)
PD	0	0	1 (6.3)	1 (6.7)	0	2 (3.0)
Discontinued prior to first assessment	0	0	0	3 (20.0)	0	3 (4.5)
<b>Overall response rate, n (%)<sup>b</sup></b>	1 (100)	18 (81.8)	<b>15 (93.8)</b>	11 (73.3)	11 (91.7)	<b>56 (84.8)</b>
<b>Time to first response, median (range), months<sup>c</sup></b>	2.9 (2.9-2.9)	2.8 (2.0-6.2)	2.9 (2.6-8.3)	2.8 (2.6-19.4)	2.8 (2.6-13.8)	2.8 (2.0-19.4)
<b>Time to best response, median (range), months</b>	2.9 (2.9-2.9)	2.8 (2.0-11.1)	3.4 (2.6-13.8)	5.6 (2.6-19.4)	8.3 (2.7-13.8)	3.4 (2.0-19.4)
<b>Duration of exposure, median (range), months</b>	29.6 (29.6-9.6)	7.1 (3.7-23.7)	16.2 (2.9-24.6)	15.6 (0.2-22.8)	15.3 (6.8-21.4)	12.9 (0.2-29.6)

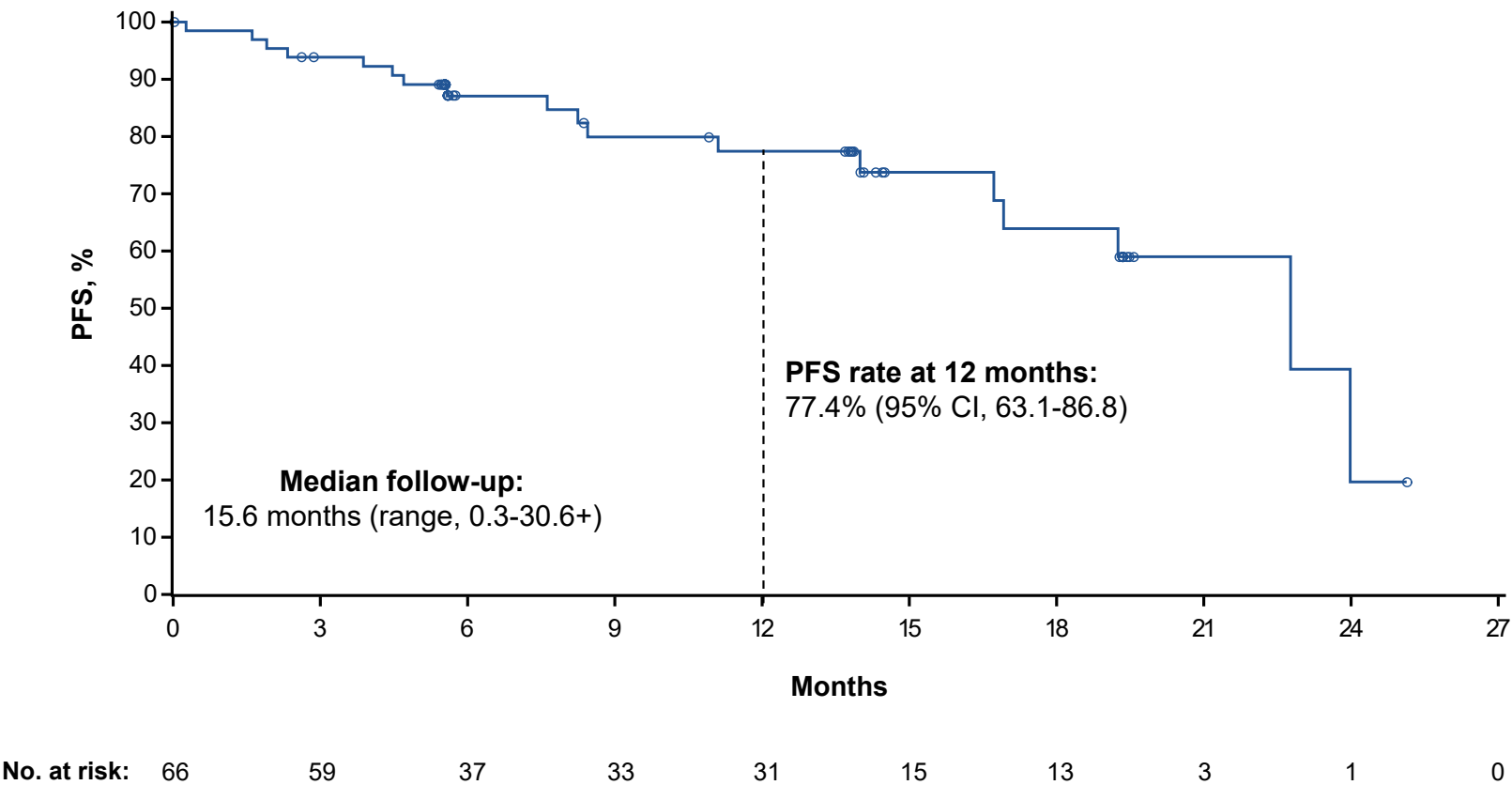
<sup>a</sup>Of 44 patients with PR, 12 achieved all nodes normalized. <sup>b</sup>Includes best overall response of PR-L or better. <sup>c</sup>In patients with a best overall response of PR-L or better.  
CR, complete response; CRi, complete response with incomplete marrow recovery; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytosis; SD, stable disease.

## High Overall Response Rates in High-Risk Subgroups

Subgroup	ORR, n/N with known status (%)
Double exposure (previously received cBTKi + BCL2i)	38/42 (90.5)
Triple exposure (previously received cBTKi + ncBTKi + BCL2i)	9/12 (75.0)
del(17p) and/or <i>TP53</i> mutation	35/43 (81.4)
Complex karyotype (≥3 abnormalities)	16/22 (72.7)
<i>BTK</i> mutations	18/24 (75.0)
<i>PLCG2</i> mutations	9/10 (90.0)

BCL2i, BCL2 inhibitor; cBTKi, covalent Bruton tyrosine kinase inhibitor; ncBTKi, noncovalent Bruton tyrosine kinase inhibitor; ORR, overall response rate.

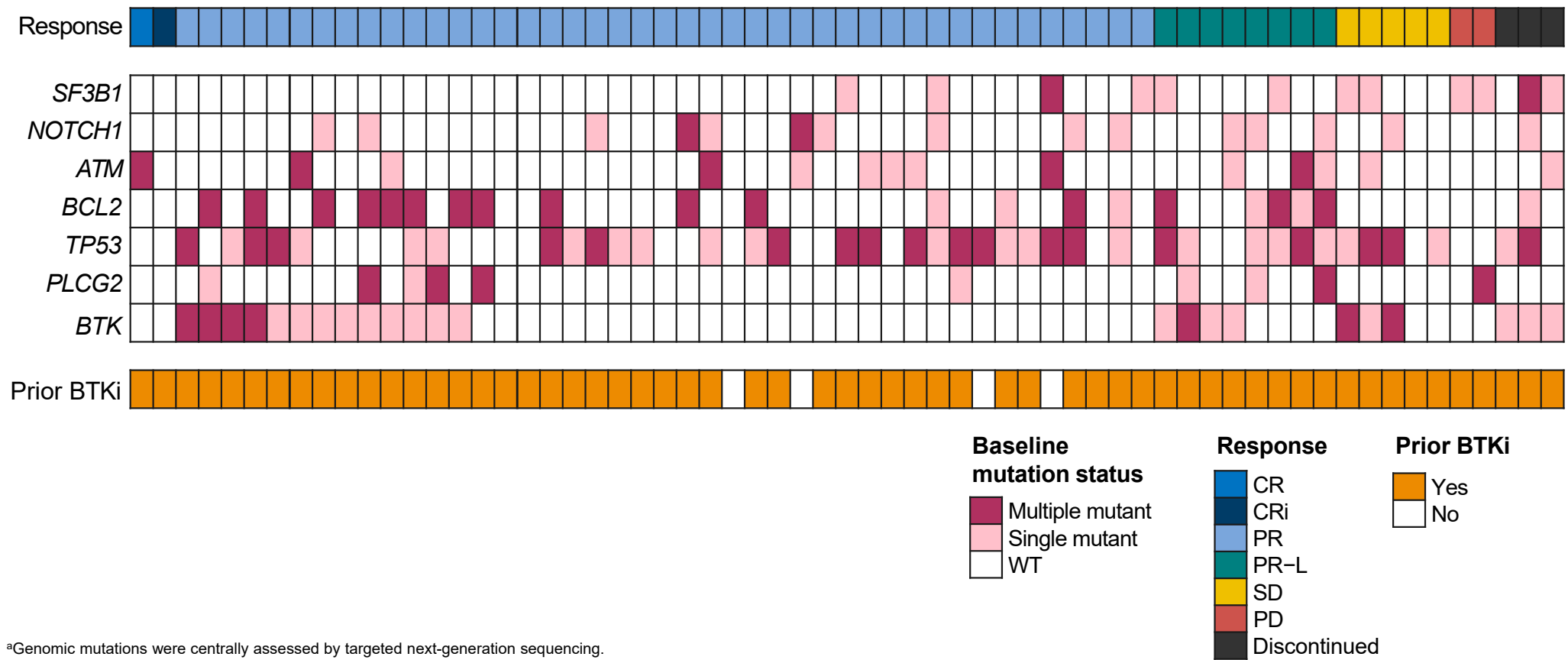
# Progression-Free Survival



PFS, progression-free survival.

# Responses Occurred Regardless of Baseline Mutations

## Best overall response vs baseline mutation<sup>a</sup>



<sup>a</sup>Genomic mutations were centrally assessed by targeted next-generation sequencing.  
BTKi, Bruton tyrosine kinase inhibitor; CR, complete response; CRi, complete response with incomplete marrow recovery; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytosis; SD, stable disease; WT, wild type.

## Conclusions

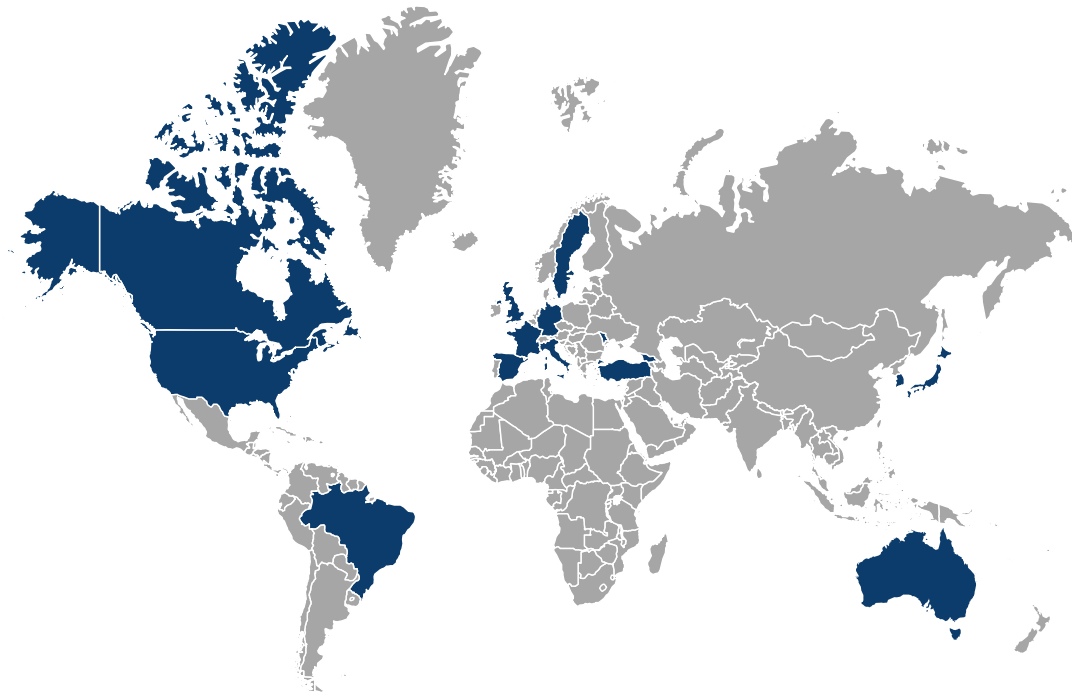
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- In phase 1 of CaDAnCe-101, the novel BTK degrader **BGB-16673** was **safe** and **well tolerated** in this **heavily pretreated** population of patients with R/R **CLL/SLL**
  - Only 2 patients discontinued treatment due to a treatment-related TEAE
  - No treatment-related deaths occurred
  - The 200-mg dose was selected as the RDFE for phase 2
- Significant **antitumor activity** was observed, including in patients with **BTK mutations** and those **previously exposed to cBTK, ncBTK, and BCL2 inhibitors**
  - ORR was 84.8%, and CR/CRi rate was 4.5%; in the 200-mg dose group, ORR was 93.8%
  - ORR in triple-exposed patients: 75.0%
  - Median time to first response: 2.8 months
  - PFS rate at 12 months: 77.4%
  - 65.2% of patients still on treatment with a median follow-up of 15.6 months
- **BGB-16673** is being evaluated in **ongoing phase 2 and phase 3** studies in **R/R CLL**

# CaDAnCe-101 Study Sites (Recruiting)

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- Enrollment for CaDAnCe-101 phase 1 and phase 2 is ongoing at >100 study sites across the US, Canada, the UK, France, Georgia, Germany, Italy, Moldova, Spain, Sweden, Turkey, Australia, South Korea, Brazil, and Japan



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